

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/772,134A
Source:	3910
Date Processed by STIC:	12/18/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.1 PROGRAM</u>, ACÇESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE: SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by the treatment given to all mail coming via the Brentwood Mail Facility.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- 3. Hand Carry directly to:
 U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, 1911 South Clark Street, Crystal Mall One, Sequence Information, Arlington, VA 22202
 - U.S. Patent and Trademark Office, 2011 South Clark Place, Customer Window, Box Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, Virginia 22202
- Federal Express Delivery, 2011 South Clark Street, Crystal Plaza 2, Room 1B03-Mailroom, Box Sequence, Arlington, VA 22202

Raw Sequence Listing Error Summary .

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09 772, 134A
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2 Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9 Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentln 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.





OIPE

RAW SEQUENCE LISTING DATE: 12/18/2001 PATENT APPLICATION: US/09/772,134A TIME: 10:27:06

Input Set : A:\seq list 1268-4-2.ST25.txt
Output Set: N:\CRF3\12182001\1772134A.raw

Does Not Comply
Corrected Diskette Needed

	3	<110>	APPLICANT: Lightfoot, David Meksem, Khalid	Erros on p	p. 3+4
	_	<120>	TITLE OF INVENTION: ISOLATED POLYNUCLEOTIDES AND	POLYPEPTIDES R	ELATING TO LOCI
	7	12207	UNDERLYING RESISTANCE TO SOYBEAN CYST NEMATODE AN		
	8		SUDDEN DEATH SYNDROME AND METHODS EMPLOYING SAME		end J
	10	<130>	FILE REFERENCE: 1268/4/2		2
:>	12	<140>	CURRENT APPLICATION NUMBER: US/09/772,134A		J.
			CURRENT FILING DATE: 2001-12-18	The type of errors sho	wn exist throughout
	12	<150>	PRIOR APPLICATION NUMBER: 60/178,811	the Commonce Listing	Please check subsequent
	13	<151>	PRIOR FILING DATE: 2000-01-28	sequences for similar	епога.
			NUMBER OF SEQ ID NOS: 122	sodaniese ioi ciiii	•
	17	<170>	SOFTWARE: PatentIn version 3.0		
	19	<210>	SEQ ID NO: 1		
	20	<211>	LENGTH: 87		
			TYPE: DNA		
			ORGANISM: soybean		
			SEQUENCE: 1		60
			catgg tttctcttat gacattgttg ccaagtaata ctactatata	aattcagatt	60
			ttctg ataaccgtgg tcgttaa		87
			SEQ ID NO: 2		
			LENGTH: 92		
			TYPE: DNA		
			ORGANISM: soybean		
			SEQUENCE: 2 catgg titotottat cttatgacat tgttgccaag taatactact	atataaatto	60
			taggt ticagataac cgtggtcgtt aa	atataaattt	92
		-	SEQ ID NO: 3		72
			LENGTH: 113		
			TYPE: DNA		•
			ORGANISM: soybean		
			SEQUENCE: 3		
			cctaa tatacgagtg aatattattg taatgcttgt aaaaaaacat	gataaaatgc	60
	49	aaaaat	tttgg ggtgaatttt tacgacatta gtgaaaaaaa catatccctt	taa	113
			SEQ ID NO: 4		
			LENGTH: 135		
	54	<212>	TYPE: DNA		
	55	<213>	ORGANISM: soybean		
			SEQUENCE: 4		
	58	ttaaaq	gggat atgittitti cactaatget gtaaaaatte acccagatit	ttgcattttc	60
			aaaaa tgtactagat atatcatgtt tttttacaag cattacaata	atattcactc	120
			ttagg aattc		135
			SEQ ID NO: 5		
			LENGTH: 116		
			TYPE: DNA		
			ORGANISM: soybean		
	70	<400>	SEQUENCE: 5		60

71 gaatteeggt tateteagae aacttttgtt tggtttggtt atagtaaaga caegattate

60



DATE: 12/18/2001

TIME: 10:27:06

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/772,134A

25.txt

73 caggctttga gaggcataga aataattttt ttatataaaa aaaaaagtct ctttaa 76 <210> SEQ ID NO: 6 77 <211> LENGTH: 113 78 <212> TYPE: DNA	116
79 <213> ORGANISM: soybean	
81 <400> SEQUENCE: 6	
82 gaattteggt tateteagae aacttttgtt tggtttggtt atagtaaaga cacgattate	60 113
84 caggetttga gaggeataga aataattttt ttatataaaa aaaagtetet tta 87 <210> SEQ ID NO: 7	113
88 <211> LENGTH: 409	
89 <212> TYPE: DNA	
90 <213> ORGANISM: soybean - Forrest	
92 <400> SEQUENCE: 7	
93 gagtaaaacc ttgcgtgtga tcggtattac agtacgcagg gccaatcaac taaaatatct	60
95 gcaaacgata atataattat aagaaaaaga cacactttga gggcattttt gacttgagag	120 180
97 aactcaggta tcaatctaaa agcaacgctg ttcaccttga gctgaaacac ctggaggaga	240
99 aagcaaagca aaccaaacgc gagagagaaa taaagaacgg aaacagagag agagagaga 101 aggaccttgt tcaaagcaac ggggacaact ttagagccct ggcgcgcgtg ggggtcaata	300
103 agggtaacct ggctgaggag agcctcggcg tcgtccttgc tgaagcagaa gaggaagagc	360
105 acgagaccaa gagaaactcc toggaagcaa ogggaattgg tacgoagto	409
108 <210> SEQ ID NO: 8	
109 <211> LENGTH: 417	
110 <212> TYPE: DNA	
111 <213> ORGANISM: soybean	
113 <400> SEQUENCE: 8	
114 gagtaaaacc ttgcgtgtga tcggtattac agtacgcagg gccatggttt gagccaatca	60
116 actaaaatat ttgcaaacga taatataatt ataagaaaaa gactcacttt gagggcattt	120
118 ttgacttgag agaactcagg tatcaatcta aaagcaacgc tgttcacctt gagctgaaac	180 240
120 acctggagga gaaagcaaag caaaccaaac gcgagagaga aataaagaac ggaaacagag 122 agagaggaag gaccttgttc aaagcaacgg ggacaacttt agagccctgg cgcgcgtggg	300
122 agagaggaag gaccitytte aaagcaacyg ggacaactit agagccetgg egegegeggg 124 ggtcaataag cgtaacctgg ctgaggagag cctcggcgcc gtccttgctg aagcagaaga	360
126 ggaagagccc gagaccaaga gaaactcctc ggaagcaacg ggaattggta cgcagtc	417
129 <210> SEQ ID NO: 9	
130 <211> LENGTH: 165	
131 <212> TYPE: DNA	
132 <213> ORGANISM: soybean	
134 <400> SEQUENCE: 9	
135 gagtaaatga aaatcgatca aaatcaaata atatatgctt tttttagttg tgttcaagta	60
137 acttttttt attgaaaaa tcgacccaag ttgaaacaca tgtttgagaa ttgttttgtg	120
139 catccaacgt ttttcttgta caatcagctg tgagagggga attgg 142 <210> SEQ ID NO: 10	165
142 <210> SEQ 1D NO: 10 143 <211> LENGTH: 164	
144 <212> TYPE: DNA	
145 <213> ORGANISM: soybean	
147 <400> SEQUENCE: 10	
148 gagtaaatga aaatcgatca aaatcaaata atatatgctt tttttagttg ggttcaagta	60
150 cttttttta ttgaaaaaat cgacccaagt tgaaacacat gtttgagaat tgttttgtgc	120
152 atccaacgtt tttcttgtac aatcagctgt gagaggggaa ttgg	164
155 <210> SEQ ID NO: 11	



RAW SEQUENCE LISTING DATE: 12/18/2001 PATENT APPLICATION: US/09/772,134A TIME: 10:27:06

```
156 <211> LENGTH: 114
157 <212> TYPE: DNA
158 <213> ORGANISM: soybean
160 <400> SEQUENCE: 11
161 gaattcccag ctagatttgt atcaaacatg tattgtccac aaaatgttca agcatcttag
                                                                         60
163 ggaactgcta ttcttacttc taaatttttt attgacatcc aaagtgtgct ttaa
                                                                        114
166 <210> SEQ ID NO: 12
167 <211> LENGTH: 114
168 <212> TYPE: DNA
169 <213> ORGANISM: soybean
171 <400> SEQUENCE: 12
172 gaattcccag ccagatttgt atcaaacatg tattgtccac aaaatgttca agcatcttag
                                                                         60
174 ggaactgcta ttcttacttc taaatttttt attgacatcc aaagtgtgct ttaa
184 <223> OTHER INFORMATION: n is an undetermined nucleotide (dATP, dCTP, dGTP, or dTTP)
188 aatgggagga gtgggaaaga cagtggctat ggagcttgtt ccggaggttg ggttggaatc
                                                                         60
190 aagtgtgctc agggacaggt tattgtgatc cagctteett ggaagggttt gaggggtega
                                                                        120
192 atcaccgaca aaattggcca acttcaaggc ctcaggaagc ttagtcttca tgataaccaa
                                                                        180
194 attggtggtt caatcccttc aactttggga cttcttccca accttagagg ggttcagtta
                                                                        240
196 ttcaacaata ggcttacagg ttccatacct ctttctttag gtttctgcct ttgcttcaag
                                                                        300
198 totottgaco toagoaacaa ottgotoaca ggagcaatoo ottatagtot tgotaattoo
                                                                        360
200 actaagettt attggettaa ettgagttte aacteettet etggteettt accagetage
                                                                        420
202 ctaactcact cattttctct cacttttctt tctcttcaaa ataacaatct ttctggctcc
                                                                        480
204 cttcctaact cttggggtgg gaattccaag aatggcttct ttaggcttca aaatttgatc
                                                                        540
206 ctagatcata actttttcac tggtgacgtt cctgcttctt tgggtagctt aagagagctc
                                                                        600
208 aatgagattt cccttagtca taataagttt agtggagcta taccaaatga aataggaacc
                                                                        660
210 ctttctaggc ttaagacact tgacatttct aataatgcct tgaatgggaa cttgcctgct
                                                                        720
212 acceteteta atttateete acttacaetg etgaatgeag agaacaaeet eettgacaat
                                                                        780
                                                                       . 840
214 caaatccctc aaagtttagg tagattgcgt aatctttctg ttctgatttt gagtagaaac
216 caatttagtg gacatattcc ttcaagcatt gcaaacattt cctcgcttag gcagcttgat
                                                                        900
218 ttgtcactga ataatttcag tggagaaatt ccagtctcct ttgacagtca gcgcagtcta
                                                                        960
220 aatotottoa atgittoota caatagooto toaggitoig toccocciot gottgocaag
                                                                       1020
222 aaatttaact caageteatt tgtgggaaat atteaaetat gtgggtaeag eeetteaaee
                                                                       1080
224 ccatgtcttt cccaagctcc atcacaagga gtcattgccc cacctcctga agtgtcaaaa
                                                                       1140
226 catcaccatc ataggaaget aagcaccaaa gacataatte teatagtage aggagttete
                                                                       1200
228 ctcqtaqtcc tgattatact ttgttgtgtc ctgcttttct gcctgatcag aaagagatca
                                                                       1260
230 acatctaggc cgggaacggc caagccaccc gagggtagag cggccactat gaggacagaa
                                                                       1320
232 aaaggagtcc ctccagttgc tggtggtgat gttgaagcag gtggggaggc tggagggaaa
                                                                       1380
234 ctagtccatt ttgatggacc aatggctttt acagctgatg atctcttgtg tgoaacagct
                                                                       1440
236 gagatcatgg gaaagagcac ctatggaact gtttataagg ctattttgga ggatggaagt
                                                                       1500
238 caagttgcag taaagagatt gagggaaaag atcactaaag gtcatagaga atttgaatca
                                                                       1560
240 gaagtcagtg ttctaggaaa aattagacac cccaatgttt tggctctgag ggcctattac
                                                                       1620
242 ttgggaccca aaggggaaaa gcttctgggt tttgatacat gtctaaagga agtcttgctt
                                                                       1680
```



DATE: 12/18/2001

TIME: 10:27:06

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/772,134A

```
244 ctttcctaca tggaaggttc gtgtgctggt tctttcatta aagtgttgtg tgtgctggtc
                                                                              1740
    246 tttaattata atttggagtt ttaccttagt aatctgtata attctaatcg gagaacagta
                                                                              1800
v--> 248 caaacaaaaa cacctaagga acaacacctt anctttaata taccatatca ataaagtgaa
                                                                              1860
    250 atattttctt ggtcatcttg atgcaggggg aactgaacat tcattattgg ccacaagatt
                                                                              1920
    252 aaaatageee aageettgge eegggettgt ttgeetteat teecaggaga acateataca
                                                                              1980
v--> 254 tgggacctcn catccagcaa tgtgtggctt gatgaaaaac aaatgctaaa attcagattt
                                                                              2040
    256 tggtcttttt cgggttgatg tcaactgctg ctaattccaa cgtgatagct acagctggag
                                                                              2100
    258 cattggatac cgggcacctg agctctcaaa gctcaagaaa gcaaacacta aaactgatat
                                                                              2160
    260 ctacagtett ggtgttatet tgttagaact eetaacgagg aaateacetg gggtgtetat
                                                                              2220
    262 gaatggacta gatttgcctc agtgggttgc ctcagttgtc aaagaggagt ggacaaatga
                                                                              2280
                                                                              2340
    264 ggtttttgat gcagacttga tgagagatgc atccacagtt ggcgacgagt tgctaaacac
    266 gttgaagete getttgeact gtgttgatee ttetecatea geaegaceag aagtteatea
                                                                              2400
    268 agttctccag cagctgaaga gattagacca gagagatcag tcacagccag tcccggggac
                                                                              2460
    270 gatatcgtat agcacaaatt ttgcattgat ttttttgtgc caaatgtagt aggcctacta
                                                                              2520
    272 tatatatgtt ctatgattct ttcattctta tattattttt gcctgtttga atgcttgaat
                                                                              2580
    274 ttgtacatac tcatactaca ataaggtgta gttctggtta attttacctc tacctcaaag
                                                                              2640
    276 ctggggtgta attctgtttc ctccaaggca cataatagtt gaaaatagtt ctcaggagca
                                                                              2700
    278 ttcattgttt attctgcaag attctctttc acggctgcta tcttctatgc atgccctgcc
                                                                              2760
    280 cataaatgca ttatgaagaa ttgtaacggc tgtgtttttg gacttcttca aaaagtttat
                                                                              2820
    282 gttattgcca ggtgtatata tcaacatgtt ttaaagattt tcaaacaatc aggttttaga
                                                                              2880
    284 tgtgggtttg catgcatgag attggactag tgcgcttgat gtagtataaa atataaattg
                                                                              2940
    286 tocaatcaag caccototac atgtocaaat aatgggcott atgaaactta atttttaat
                                                                              3000
1--> 288 tacaaactac agtaatcttt ttgaataaag atttacaaat tacaacngac atgtgaagcn
                                                                              3060
1--> 290 gcatctttna ttgncaatct ttcaagttac tctattattt tctgcn
                                                                              3106
                                         must give location of Xaz
must give location of Xaz
summon sheet, Tem 9
    293 <210> SEQ ID NO: 14
    294 <211> LENGTH: 830
    295 <212> TYPE: PRT
    296 <213> ORGANISM: soybean
    298 <220> FEATURE:
    299 <221> NAME/KEY: misc_feature
    300 <223> OTHER INFORMATION: X is any amino acid
    303 <400> SEQUENCE: 14
    305 Asn Gly Arg Ser Gly Lys Asp Ser Gly Tyr Gly Ala Cys Ser Gly Gly
                                              10
    308 Trp Val Gly Ile Lys Cys Ala Gln Gly Gln Val Ile Val Ile Gln Leu
                     20
    311 Pro Trp Lys Gly Leu Arg Gly Arg Ile Thr Asp Lys Ile Gly Gln Leu
                                      40
    314 Gln Gly Leu Arg Lys Leu Ser Leu His Asp Asn Gln Ile Gly Gly Ser
                                 55
    317 Ile Pro Ser Thr Leu Gly Leu Leu Pro Asn Leu Arg Gly Val Gln Leu
                                                  75
                             70
     320 Phe Asn Asn Arg Leu Thr Gly Ser Ile Pro Leu Ser Leu Gly Phe Cys
                                              90
     323 Pro Leu Leu Gln Ser Leu Asp Leu Ser Asn Asn Leu Leu Thr Gly Ala
                                          105
                     100
     326 Ile Pro Tyr Ser Leu Ala Asn Ser Thr Lys Leu Tyr Trp Leu Asn Leu
                                     120
                 115
     329 Ser Phe Asn Ser Phe Ser Gly Pro Leu Pro Ala Ser Leu Thr His Ser
```



RAW SEQUENCE LISTING DATE: 12/18/2001 PATENT APPLICATION: US/09/772,134A TIME: 10:27:06

220		130					135					140				
	Phe		LOU	Thr	Dho	T.011		T. - 11	Gln	Δsn	Δen		Len	Ser	Glv	Ser
	145	261	Leu	T 111	rne	150	561	DCu	0111	11311	155		Deu	501	O ₁	160
	Leu	Dro	λαη	202	m rn		Clv	λen	Sar	Tve		Gly	Dhe	Dha	Δra	
336	ьеu	PIO	ASII	261	165	GLY	GIY	V211	Jei	170	กรก	OI,	1 110	1 110	175	Leu
	Gln	3 0 0	T 011	Tlo		λcn	uic	λcn	Dho		Thr	Glv	Aen	Val		λla
	GIN	ASII	reu	180	Leu	АБР	птъ	ASII	185	rne	1111	GIY	изъ	190	FIU	Ala
339	Ser	T	c1		LOU	7 ~~	Cl.	Lou		Clu	Tla	Sor	Lan		Uic	λen
	ser	Leu	195	261	Leu	AIG	GIU	200	ASII	GIU	116	361	205	261	111.5	וופח
342	Lys	nh -		C1	» I -	т1о	Dwo		C1	T10	Cly	Thr		cor	λrα	Lon
	_		Ser	GIY	АІа	116	215	ASII	GIU	116	GIY	220	пец	261	nry	пец
345		210	.		T1.	C = m		3 0 0	3 1 5	T au	N a n		λαη	Lou	Dro	λla
	Lys	Thr	ьeu	ASP	me	230	ASII	ASII	нта	Leu	235	GIY	ASII	Leu	PIO	240
	225	_	.	•	.		0	T	mh	T		1 a n	A 7 m	C1	Non	
	Thr	Leu	ser	Asn		ser	ser	Leu	THE	250	reu	ASII	Ата	GIU	255	ASII
351	_	_			245	-1 -	D	a 1	0		C1	3	T 0	N ~~		T 011
	Leu	Leu	Asp		GIN	116	Pro	GIN		Leu	GIY	Arg	Leu		ASII	rea
354	_		_	260	•	a	•	.	265	nh.	0	~1	111.0	270	Dwa	Con
	Ser	Val		шe	Leu	ser	Arg		GIN	Phe	ser	GIY		TTE	PIO	ser
357	_		275	_	- 1	.	a	280	•	a1 -	T	.	285	C = 14	T	3
	Ser		Ala	Asn	TTE	Ser		Leu	Arg	GIn	Leu		ьeu	ser	Leu	ASII
360		290	_				295		_	-1		300	01	•		.
	Asn	Phe	Ser	GLY	GLu		Pro	Val	Ser	Pne		Ser	GIN	Arg	Ser	
363	305	_			1	310	_	_		-	315	01	a	v- 1	D	320
	Asn	Leu	Ser	Asn				Asn	Ser		ser	GTÄ	ser	val		PLO
366				_	325	_,			a	330	Db -	17. 1	01	,	335	a1 -
	Leu	Leu	Ala		Lys	Phe	Asn	ser		ser	Pne	val	GIĄ		rre	GIN
369	_	_	~ 3	340	a	D	a	m 1	345	0	T	000	C1 -	350	Dwa	Com
	Leu	Cys		туг	ser	Pro	ser		Pro	Cys	ьeu	ser		Ald	PIO	ser
372			355	-1		D	D	360	a 1	17 1		T	365	II i a	ni a	1116
	Gln		vaı	тте	Ala	Pro		Pro	GIU	val	ser		HIS	HIS	HIS	HIS
375	_	370	_	_		•	375	7 1.	-1 -	Ŧ	T1.	380	210	c1	v. l	T a
	Arg	Lys	Leu	ser			Asp	ше	TTE	Leu		vaı	Ald	GIY	Val	
	385			_		390	•		0	17- 1	395	T	nh a	C	т	400
	Leu	Val	Val	Leu		11e	Leu	Cys	Cys		Leu	Leu	Pne	Cys		ire
381	_	_	_		405	a	T		a1	410	C1	C1 =	A 1 ~	mh ~	415	C1
	Arg	Lys	Arg		Thr	ser	rys	Ата		ASN	GTĀ	GIN	Ala	430	GIU	СТУ
384				420		_	m)	01	425	a 1	17. 1	n	D		. 1 .	01
	Arg													vaı	Ата	GIY
													445	u. 1	77.5	Dha
	Gly	_	Val	GIu	Ата	GTÀ		GIU	АТа	GIY	GIY		Leu	val	HIS	Pne
390		450	_			-1	455			3	T	460	O	.1.	m b	. 1 -
	Asp	Gly	Pro	Met	Ala		Thr	АТА	Asp	Asp		Leu	Cys	Ата	Thr	
393	465	- 1		- 1	•	470	m \		01	mb	475	m	T a	. 1 -	T1.	480
	Glu	He	мет	GTÀ		ser	Thr	туг	GIA		vaı	TYL	гуѕ	Ата	49-5	
396	~ 3		0.3	0	485	17- 1	n 1 _	17. 1	T	490	T 0	A ~~	C1	T		
	Glu	Asp	GTÄ		GIN	val	Ala	AgT		arg	rea	Arg	GIU	LуS 510	TTG	THE
399	.	01	772 -	500	G3	nh-	C1	C ~ ~	505	บรา	c.~	Val	LOV		Lvc	Tla
	Lys	стÀ		Arg	GIU	rne	GIU	520	GIU	val	26I	vaı	525	GTÅ	пλэ	116
402			515					320					223			



VERIFICATION SUMMARY PATENT APPLICATION: US/09/772,134A DATE: 12/18/2001 TIME: 10:27:07

```
L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:248 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:248~M:341~W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:254 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:288 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:290 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
\tilde{\iota}:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
5:419 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14
5:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
5:422 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14
1:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
4:425 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14
\mbox{\ensuremath{\text{J:425}}} M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
1:428 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14
1:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
1:434 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14
1:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
3:437 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14
_{\mbox{\scriptsize J}}:437\mbox{\ M}:341\mbox{\ W}:\mbox{\ (46)\ "n"\ or\ "Xaa"\ used,\ for\ SEQ\ ID$$\#$:$14$}
J:446 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14
.:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
.:452 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14
.:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
.:455 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14
,:455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
.:467 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15
.:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
::487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
.:493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
.:495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
.:497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
.:506 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16
:532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
::541 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17
:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
:549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
 :551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
 :553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
 :555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
 :557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
 :559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
:561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
 :563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
 :565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
 :574 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18
```



DATE: 12/18/2001

TIME: 10:27:07

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/772,134A

```
J:596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
J:598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
J:600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
1:602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
1:604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
.:615 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19
1:633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
J:637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
J:639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
::641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
.:643 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
J:645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
.:683 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
.:683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
.:685 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
,:685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
::687 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
.:687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
.:689 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
::689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
::717 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21
.:717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
::719 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21
::719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
::721 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21
.:721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
.:723 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21
:723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
:725 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21
:725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
:727 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21
:727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
:755 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
:759 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
:761 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
:763 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
:765 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
:767 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
:769 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
:799 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:23
:803 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:23
:805 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:23
:807 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:23
:809 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:23
:837 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:24
 :839 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:24
:841 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:24
 :877 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:25
 :879 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:25
```





VERIFICATION SUMMARY

PATENT APPLICATION: US/09/772,134A

DATE: 12/18/2001 TIME: 10:27:07

Input Set : A:\seq list 1268-4-2.ST25.txt
Output Set: N:\CRF3\12182001\1772134A.raw

L:893 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:26 L:909 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:26 L:911 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:26 L:945 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:27 L:961 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:27 L:963 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:975 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:977 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:979 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:979 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:979 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28 L:981 M:258 M:2

CProject

ÝISOLATED POLYNUCLEOTIDES AND POLYPEPTIDES RELATING CProjectData TO LOCI UNDERLYING RESISTANCE TO SOYBEAN CYST NEMATODE AND SOYBEAN SUDDEN DEATH SYNDROME AND METHODS EMPLOYING SAME 1268/4/2 z

CDNASequence E-ATG/ M-CG87 Forrestsoybean "gaattcatgg tttctcttat gacattgttg ccaagtaata ctactatata aattcagatt 60 tgggtttctg ataaccgtgg tcgttaa agctrymkswbdhvn DNA CCom mentFeature

? E-ATG/ M-CGA92 $Essex soy be an \verb|\| gaattcat ggtttctcttatcttat gacatt gtt gccaa gta at act act at$ ataaattcagatttgggtttcagataaccgtggtcgttaa

E-CTA/ M-AGG113 Forrestsoybean-gaattcctaa tatacgagtg aatattattg taatgcttgt aaaaaaacat gataaaatgc 60 aaaaaatttgg ggtgaatttt tacgacatta gtgaaaaaaa catatccctt taa 113

> agctrymkswbdhvn DNA ? OF' ?

E-CTA/ M-AGG135 Essexsoybeanáttaaagggat atgtttttt cactaatgct gtaaaaattc acccagattt ttgcattttc 60 tttgaaaaaa tgtactagat atatcatgtt tttttacaag cattacaata atattcactc 120 gtatattagg aattc

135 agctrymkswbdhvn DNA

? E-CGG/ M-AGA116 Forrestsoybean-gaattccggt tateteagae aacttttgtt tggtttggtt atagtaaaga cacgattate

Met Val Ser Met Phe Ser Leu Ser Phe Lys Trp Pro Gly Phe dys Leu

1

10

Phe Val

	e manage life(a me	Definition .	Comments and format	mailuatory (M) or optional (O):
200 201 217	A SALES OF THE SAL	TANK TO STATE OF THE PARTY OF T	Preferably max of 10 names; one name p	
	<110>	Applicant	preferable format: Sumame, Other Names and/ or Initials:	M 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
1. 14.4	<120>	Title of Intention	The state of the s	M.
	<130>		Personal file reference	M when filed prior to assignment of appl. number.
	<140>	Number.	Specify as: US 07/999,999 or PCT/US96/999999	
į	<141>			M, if available.
	<150>	Prior Application Num-	Specify_as: US 07/999,999 or PCT/US96/99999	M, if applicable include priority documents under
	<151>		Specify as: yyyy-mm-dd	M, if applicable.
	<160>	Date. Number of SEQ ID NOs	Count lactudes total number of SEQ ID NOs	M. Stranger
•	<170>	Software	Listing.	O. S.
	<210>	ر ويوسين المراب	Response shall be an integer representing the SEQ-ID NO shown.	M
المعاد	<211>	Length	Respond with an integer expressing the number of bases or amino acid residues.	
	Numeric Iden- tifier	Definition	Comments and format	Mandatory (M) or optional (O).
. Barrell .	<212>	Туре	Whether presented sequence molecule is DNA, RNA, or PRT (protein). If a nucleotide se-	M.
			quence contains both DNA and RNA frag-	مني ا
		ĺ	ments, the type shall be "DNA." In addition,	<i>**</i> **********************************
			the combined DNA/RNA molecule shall be fur- ther described in the <220> to <223> feature	
	<u>4</u> 213>	Organism	section. Scientific name, I.e. Genus/ species, Unknown or Artificial Seguence. In addition, the "Unknown"	M
			or "Artificial Sequence" organisms shall be fur-	
	•		ther described in the <220> to <223> feature section.	*;··
	<220>	Feature	Leave blank after <220>, <221-223> provide for	M, under the following conditions: if "n," "Xaa,"
			a description of points of biological significance in the sequence	or a modified or unusual L-amino acid or modified base was used in a sequence; if ORGA-
			·	NISM is "Artificial Sequence" or "Unknown"; if molecule is combined DNA/RNA"
	z221s	Name/Key	Provide appropriate identifier for feature, pref-	M, under the following conditions: if "n," "Xaa,"
	CZ217	Hamericey	erably from WIPO Standard ST.25 (1998), Ap-	or a modified or unusual L-amino acid or modi-
			pendix 2, Tables 5 and 6.	fied base was used in a sequence.
	<222>	Location	priate state number of first and last bases/	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence.
	<223>	Other Information	amino acids in feature. Other relevant information; four lines maximum	M, under the following conditions: if "n," "Xaa,"
				or a modified or unusual L-amino acid or modified base was used in a sequence; if ORGA-
				NISM is "Artificial Sequence" or "Unknown"; if molecule is combined DNA/RNA.
	<300>	Publication Information		0.
	<301>	Authors		O.
			tion; specify one name per line; preferable for- mat: Surname, Other Names and/or Initials.	0
	<302>	Title		O
	<303>	Journal Volume		O
	<305>	Issue		Ö.
	<306>	Pages		0.
	<307>	Date	yyyy-mm-dd, MMM-yyyy or Season-yyyy.	0
	<308>,	Database Accession Number.	ing database name.	0.
	1	Database Entry Date	dd or MMM-yyyy.	0.
		Patent Document Number. Patent Filing Date	Specify as, for example, US 07/999,999.	O.
		Publication Date	only; specify as yyyy-mm-dd.	0.
			tions only; specify as yyyy-mm-dd.	0.
		Sequence	THOM (position) to (position)	м.